# State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-254-6 Relating to Certification of New Motor Vehicles

### HYUNDAI MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Hyundai Motor Company emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		placement (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
KHY3.0V5FCA2	3.0	(181.4)	Exhaust Gas Recirculation Heated Oxygen Sensor Three-Way Catalyst (Sequential Fuel Injection) No On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0.41	7.0	0.4

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
(Grams per Mile)	(Grams per Mile)	(Grams per Mile
0.27	2.5	0.2

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section  $2035 \ \underline{et} \ \underline{seq}$ .).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 4 day of May, 1

K. D. Drachand, Chief Mobile Source Division

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Manufacturer

Hyundai Motor Company

Engine Family Engine Type

KHY3.0V5FCA2

Evap. Family KHY2.4IC

Liters (CID)

V6 3.0L (181.4)

### **ABBREVIATIONS**

# Exhaust Emissions Control System Special Features

AIP - Air Injection - Pump AIV - Air Injection - Valve

EGR - Exhaust Gas Recirculation

EIC - Electronic Injection Control (Diesel)

- Engine Modification

SPL - Smoke Puff Limiter or throttle Delay

TOC - Trap Oxidizer, Continual

TOP - Trap Oxidizer, Periodical

DBC - Dual Bed Catalyst

- Oxidation Catalyst System

TWC - Three-Way Catalyst System

WUOC - Warm-Up Oxidation Catalyst

WUTWC- Warm-Up Three-Way Catalyst

OS - Oxygen Sensor

HOS - Heated Oxygen Sensor

CFI - Central Fuel Injection or Throttle Body Injection

EPFI - Electronic Port Fuel Injection

MPFI - Mechanical Port Fuel Injection

SFI - Sequential Fuel Injection

DID - Diesel Injection - Direct

DIP - Diesel Injection - Prechamber

TC - Turbocharger

SC - Supercharger

IC - Intercooler or Aftercooler

CCV - Combustion Chamber Valve

OBD - On-Board Diagnostics

# Fuel System

CFI, EPFI, MPFI, SFI, DID,

DIP, HOS, OS

nV - nVenturi Carburetor

VV - Variable Venturi Carburetor

### Ignition System

CA - Centrifugal Advance

ECU - Electronic Control Unit

EI - Electronic Ignition

ESAC - Electronic Spark Advance

Control

VA - Vacuum Advance

VR - Vacuum Retard

### VEHICLE MODELS:

Engine: Front X Mid. \_\_\_\_ Rear \_\_\_\_ X RWD 4WD Full Time 4WD Part Time

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Passenger Cars  $\underline{X}$  Light-Duty Trucks  $\underline{\ }$  Medium-Duty Vehicles  $\underline{\ }$  Gas  $\underline{X}$  Diesel  $\underline{\ }$ 

Manufacturer <u>Hyundai</u>

Engine Family KHY3.0V5FCA2

Liter (CID) 3.0 (181.4)

Eng. Type <u>V6</u>

Emission Control Sys. (Special Features) HOS+EGR+TWC (SFI)

Engine Code	Vehicle Model	Trans.	Equiv. Test Weight	Ign. System (ECU) ID No.	Fuel System ID No.	EGR Valve ID No.	Catalyst Part No.
ACA4 /CA4	SONATA	A4	3375 (Test) (HP) 5.8 W/AC	CLS2 or	35310-32560 B210	TF	28950 -32750

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